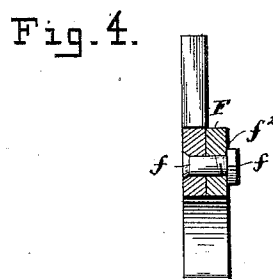
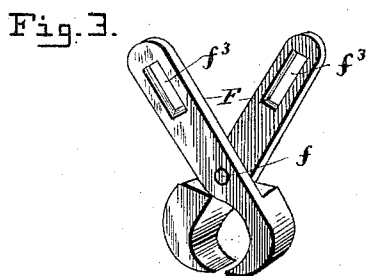
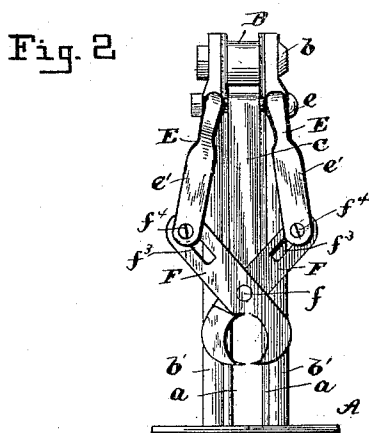
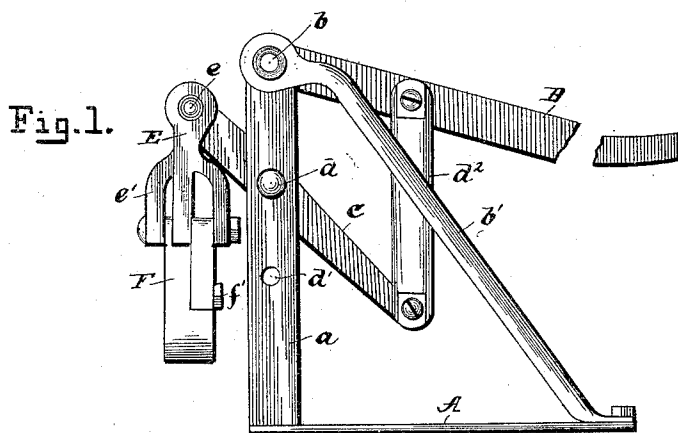


(No Model.)

P. FOWLER.
RAILWAY SPIKE PULLER OR EXTRACTOR.

No. 463,145.

Patented Nov. 17, 1891.



Witnesses

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UNITED STATES PATENT OFFICE.

PHILIP FOWLER, OF WAYNE, NEBRASKA.

RAILWAY-SPIKE PULLER OR EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 463,145, dated November 17, 1891.

Application filed May 18, 1891. Serial No. 393,096. (No model.)

To all whom it may concern:

Be it known that I, PHILIP FOWLER, a citizen of the United States of America, residing at Wayne, in the county of Wayne and State of Nebraska, have invented certain new and useful Improvements in Railway-Spike Pullers or Extractors, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a spike puller or extractor, having for its object the production of a device of this character which will occupy but a minimum amount of space and which can be made to operate upon the spikes in narrow or close quarters, and which will also pull or extract a spike without bending or twisting the same, and which will readily grasp the head of the spike.

The invention further comprises a lever fulcrumed between two parallel posts and having two corresponding depending links, two dogs or jaws having upper slotted ends loosely secured to said links, and a main operating-lever, also fulcrumed between said posts, connected to said former lever, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation. Fig. 2 is a front end view. Fig. 3 is a detail view of the dogs or jaws. Fig. 4 is a vertical sectional view thereof, showing the fulcrum pin or bolt.

Referring to the drawings, A designates a base or platform, which is preferably oblong, and a two parallel vertical bars or posts, rigidly secured to and projecting from said base or platform at one end thereof.

B is the main operating-lever, which at its inner end is pivotally secured between bars or posts *a* at the upper ends thereof by a nutted bolt *b*. These bars or posts *a* are braced in position by two inclined rods or bars *b'*, the upper forward ends of which are secured by the bolt *b*, passed through coincident holes or apertures, and their lower outer ends are rigidly secured to base or platform A.

C is a second lever fulcrumed by a bolt *d*, passed through either one of two sets of coincident holes or apertures *d'* in bars or posts *a*. At its rear end lever C is connected to lever B by two parallel strap-irons or links *d''*, while to the outer forward end of lever C are

pivotally connected by a bolt *e* the upper ends of two corresponding links E, having lower slotted ends *e'*.

F F designate two dogs or jaws, which are pivotally connected together by a nutted bolt *f*, passed through coincident holes or apertures thereof and held by a nut *f'* on the threaded reduced end *f''*, the head of said bolt being countersunk in the outer dog or jaw. The lower ends of these dogs or jaws are curved and flattened, so as to grasp the head of a spike. In the upper ends of these dogs or jaws are oblong slots *f''*, through which nutted bolts *f'''* are passed for securing said dogs or jaws to the lower slotted ends *e'* of links E, said bolts *f'''* being passed through coincident holes or apertures of said links. By thus providing the dogs or jaws with upper slotted ends the same will readily assume the desired position with relation to the spike and can be easily made to grasp the head thereof.

In practice the lever C is generally fulcrumed near the upper ends of the bars or posts, its bolt *d* being passed through the upper set of holes or apertures *d'*. Where the space at which the puller or extractor is to operate is narrow or limited the bolt *d* is passed through the lower set of holes or apertures, so that the base or platform can be placed on top of a rail and the dog or jaws permitted to reach the spike to be extracted. The device is thus employed when working around switches, especially at the convergent points of the rails thereof.

The advantages of my invention will be apparent to those skilled in the art to which it appertains, and it will be especially observed that the same can be operated in very narrow spaces, and also that the spike in being extracted is pulled in a vertical line, whereby bending thereof is avoided, and also the dogs or jaws readily assume the proper position and quickly and easily grasp the head of the spike.

I claim as my invention—

1. The herein-described improved spike puller or extractor, comprising the lever, the two depending links pivotally secured thereto and having lower slotted ends, the dogs or jaws pivotally connected together and having slots in their upper ends, the nutted bolts pro-

jected through said slots and coincident holes or apertures of said links, and the main operating-lever connected to said former lever, substantially as set forth.

- 5 2. The herein-described improved spike puller or extractor, comprising the base or platform, the parallel bars or posts having upper and lower holes or apertures, the lever fulcrumed between said bars or posts, the links
10 pivotally connected to said lever, the dogs or jaws having lower curved ends and slots in their upper ends, the nutted bolts passed

through said slots and links, the main operating-lever fulcrumed between said bars or posts, and the strap-irons connected thereto 15 and to said former lever, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

PHILIP FOWLER.

Witnesses:

JOHN McDONALD,
JNO. H. MORSE.